Amendments to the Claims

The following listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims

1   1 (Currently Amended). A speech recognition system, comprising:

2   at least one recognizer to produce output signals from audio input ~~signals; and~~

3   <u>signals based at least in part on speech models and grammar files;</u>

4   a feedback module to generate feedback ~~data.~~ <u>data; and</u>

5   <u>a controller adaptable to modify the speech models and the grammar files based</u>

6   <u>on the feedback data to improve the performance of the at least one recognizer.</u>

1   2 (Currently Amended). The speech recognition system of claim 1, wherein ~~the~~

2   ~~speech recognition system further comprises a controller~~ <u>the controller is</u> operable to

3   coordinate production of the output signals.

1   3 (Currently Amended). The speech recognition system of ~~claim 2~~ <u>claim 1,</u>

2   wherein the controller is adaptable to provide the feedback data to the recognizer

3   wherein the recognizer is operable to receive the feedback data.

1   4 (Cancelled).

1   5 (Currently Amended). The speech recognition system of ~~claim 2~~ claim 1,

2   wherein the controller is adaptable to store the feedback data in a storage.

1   6 (Cancelled).

1   7 (Original). The speech recognition system of claim 1, wherein at least one

2   recognizer further comprises multiple recognizers and a predictor to select a best

3   performing recognizer from the multiple recognizers based upon the feedback data.

1   8 (Original). The speech recognition system of claim 1, wherein the output

2   signals correspond to one of the group comprised of: text, and command signals.

1   9 (Original). The system of claim 1, where the feedback module is adapted to

2   generate feedback data based on internal analysis of at least one of the group

3   comprised of: grammar files, dialog progression, and output signals.

1   10 (Currently Amended). The system of claim 1, wherein the feedback module is

2   adapted to generate feedback data based on external inputs ~~comprised of~~ comprising at

3   least one of the group comprised of: annotated grammar files and information received

4   through an application programming interface.

1   11 (Currently Amended). A speech recognition system, comprising:

2   at least one speech recognizer to convert audio input signals to output signals,

3   wherein the speech recognizer is adapted to receive feedback data and adjust

4   operation <u>by modifying speech models and grammar files</u> based upon the feedback

5   data.

1   12 (Original). The speech recognition system of claim 11, wherein the system

2   further comprises a controller operable to provide the feedback data to the recognizer.

1   13 (Currently Amended). The speech recognition system of ~~claim 11~~ <u>claim 12</u>,

2   wherein the controller is adaptable to provide the feedback data to the recognizer.

1   14 (Original). The speech recognition system of claim 13, wherein the speech

2   recognizer receives the feedback data in a manner of one of the group comprised of:

3   real-time, and off-line.

1   15 (Original). The speech recognition system of claim 11, wherein the speech

2   recognition system further comprises a feedback module to collect feedback data.

1   16 (Currently Amended). A method of generating speech recognition feedback

2   data, the method comprising:

3   converting an audio input signal to an output signal;

4   estimating a correctness measure wherein the correctness measure expresses if

5   the output signal is a correct representation of the audio input signal; and

6   forming a feedback data element wherein the element ~~consists of~~ <u>comprises</u> at

7   least one of the audio input signal, the output signal, and the correctness measure.

1   17 (Original). The method of claim 16, wherein the method further comprises

2   storing the feedback data element.

1   18 (Original). The method of claim 17, wherein storing the feedback data element

2   further comprises storing one of the group comprised of: only those feedback data

3   elements for which the correction measure indicates that the output signal was not

4   correct and those feedback data elements for which the correction measure indicates

5   that the output signal was correct.

1   19 (Original). The method of claim 16, wherein the feedback data is filtered

2   according to a criteria.

1   20 (Original). The method of claim 16, wherein the method further comprises

2   utilizing the feedback data element, wherein utilizing comprises at least one of the group

3   comprised of: modifying a grammar file based on the feedback data, updating speech

4   models based on the feedback data and updating a prediction mechanisms based on

5   the feedback data.

1   21 (Original). The method of claim 16, wherein the method further comprises

2   providing the feedback data element to a speech recognition system in which the

3   feedback data is being collected.

1   22 (Original). The method of claim 16 wherein estimating a correctness measure

2   further comprises at least one from a group comprised of: receiving information through

3   an application programming interface, analyzing grammar files, analyzing the output

4   signal and analysis of the progression of the dialog.

1   23 (Original). The method of claim 16, wherein the method further comprises:

2   assigning an identifier to the audio input signal; and

3   including the identifier as part of the feedback data element.

1   24 (Original). The method of claim 16, wherein the method further comprises:

2   identifying relevant contextual information; and

3   including the relevant contextual information as part of the feedback data

4   element.

1   25 (Currently Amended). An article including machine-readable code that, when

2   executed, causes a machine to:

3   convert an audio input signal to an output signal;

4   estimate a correctness measure wherein the correctness measure expresses if

5   the output signal is a correct representation of the audio input signal; and

6   form a feedback data element wherein the element consists of comprises at

7   least one of the audio input signal, the output signal, and the correctness measure.

1   26 (Original). The article of claim 25, wherein the article contains further

2   machine-readable code that, when executed, causes the machine to provide the

3   feedback data element to a speech recognition system in which feedback data is being

4   collected.

1   27 (Currently Amended). The article of claim 25, wherein the code that, when

2   executed, causes the machine to provide the feedback data element element and

3   further causes the machine to utilize the feedback data element element, wherein

4   utilizing the feedback data comprises at least one of the group comprising: modifying a

5   grammar file based on the feedback data, updating speech models based on the

6   feedback data and updating a prediction mechanisms based on the feedback data.

1   28 (Original). The article of claim 25, wherein the article contains further

2   machine-readable code that, when executed, causes the machine to store only those

3   audio input signals for which the correction status indicates that a correction to the

4   output signal was necessary.

1   29 (Original). The article of claim 25, wherein the article contains further

2   machine-readable code that, when executed, causes the machine to store only those

3 audio input signals for which the correction status indicates that no correction to the

4 output signal was necessary.